

ABSTRACT OF THE DISCLOSURE

5 A data processing system nested interrupt controller 24 responsive to priority
level values 28, 30 associated with respective interrupt handling programs to control
the execution of those interrupt handling programs. The priority level values have a
first portion 28 which controls whether or not a pending interrupt handling program
will pre-empt an already active interrupt handling program and a second portion 30
10 which controls which of a plurality of pending interrupt handling programs will be
executed next when they share the same value for the first portion of their priority
level value.

[Figure 2]